



Gulf of Mexico Harmful Algal Bloom Bulletin

8 November 2007

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: November 5, 2007

Conditions Report

A harmful algal bloom has been identified in patches from Gulf County, Florida to Baldwin County, Alabama. Patchy moderate impacts are possible in bay regions of Gulf County today through Monday. Patchy very low impacts are possible today through Sunday in Okaloosa County, FL and Baldwin County, AL, with patchy moderate impacts possible Friday night and Monday. Patchy low impacts are possible in Bay County Friday night and Monday, with no impacts expected today through Sunday. No impacts are expected in Escambia, Santa Rosa, or Walton Counties through Monday November 12.

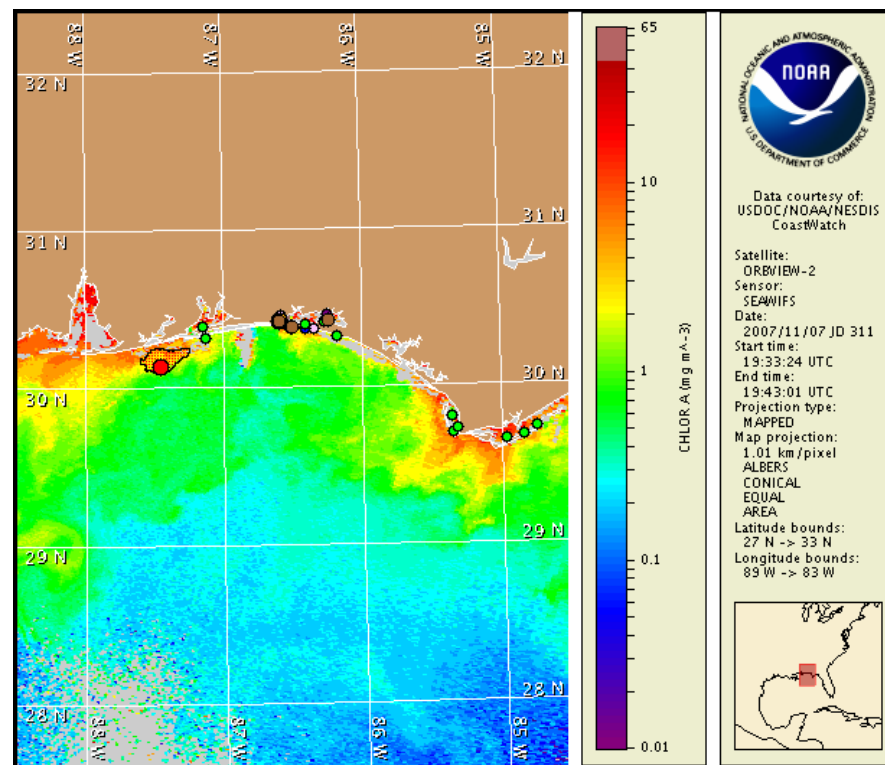
Analysis

A harmful algal bloom persists in patches from Gulf County, Florida to Baldwin County, Alabama. Recent samples indicate medium concentrations of *Karenia brevis* near Destin Pass and Garnier Bayou in Okaloosa County (FWRI, 11/6). One high concentration of *K. brevis* was also detected approximately 10 miles offshore Perdido Key in Escambia County (FWRI, 11/5). No *K. brevis* was detected onshore Escambia County this week. Reports of dead fish and discolored water have been received over the past few days in Okaloosa, Escambia, and Walton Counties. Chlorophyll levels remain elevated ($5\text{--}7\mu\text{g/L}$) along the coast of Baldwin County, AL, Okaloosa County, FL, and from southern Bay County to Gulf County. Elevated chlorophyll extends offshore Gulf County as far south as $29^{\circ}34'10''\text{N}$ $85^{\circ}19'50''\text{W}$. Patches of elevated chlorophyll have also been detected south of Escambia and Santa Rosa Counties with a maximum chlorophyll level ($>7\mu\text{g/L}$) located at $30^{\circ}14'33''\text{N}$ $87^{\circ}22'38''\text{W}$, based on satellite imagery from 11/7. Offshore winds through most of the weekend are expected to minimize impacts to the coast, with the exception of bay regions of Gulf County. Minimal transport of the bloom is expected through Monday. Continued sampling is recommended.

- Allen, Keller

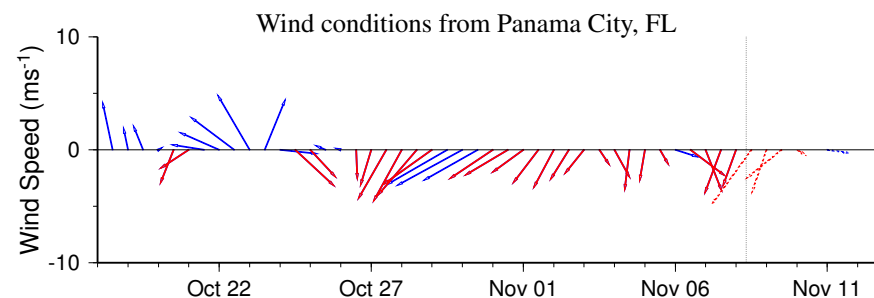
Please note the following restrictions on all SeaWiFS imagery derived from CoastWatch.

1. Data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
2. Image products may be published in newspapers. Any other publishing arrangements must receive GeoEye approval via the CoastWatch Program.



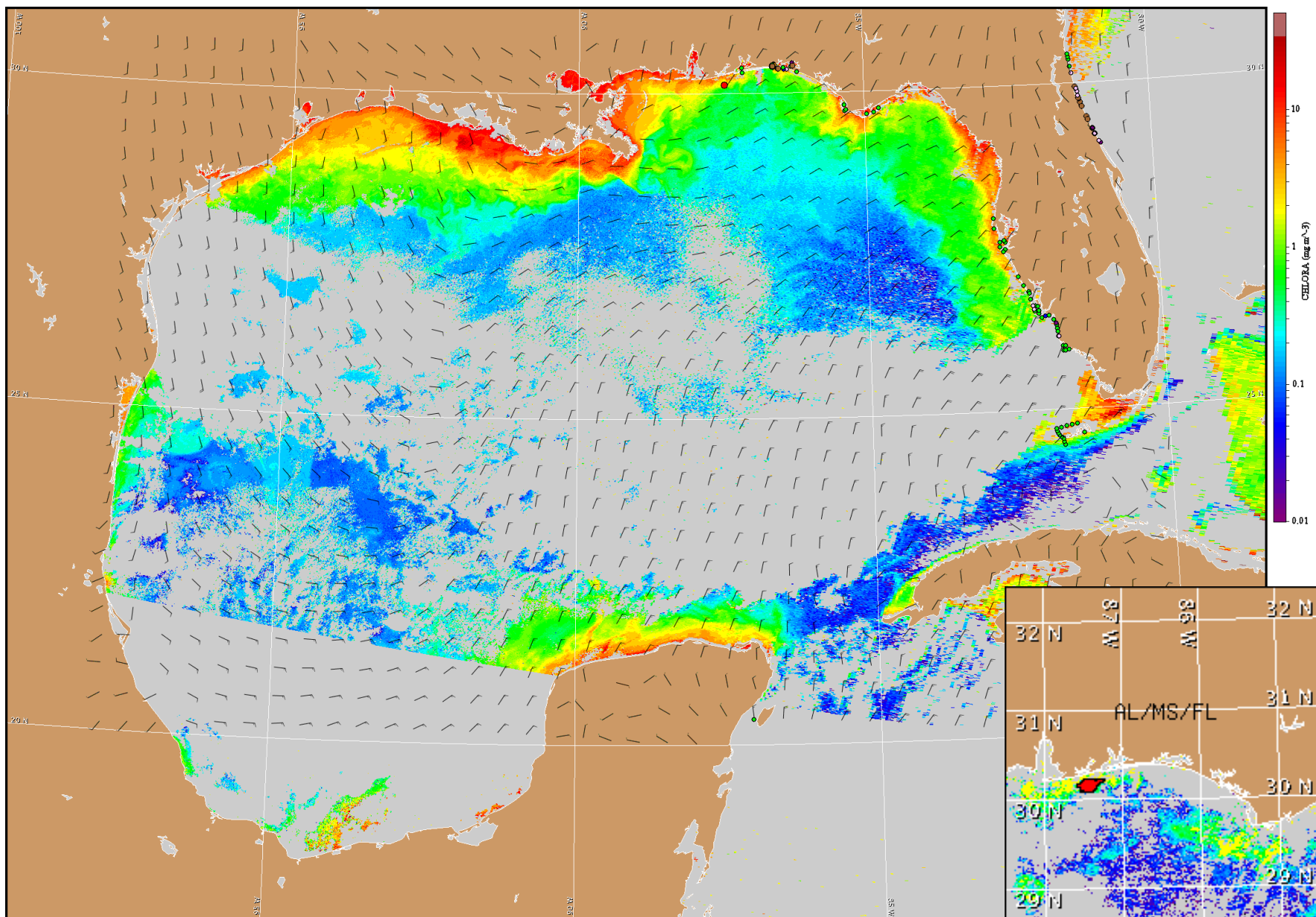
Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from October 29 to November 7 shown as red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the HABFS bulletin guide:

http://www.csc.noaa.gov/crs/habf/habfs_bulletin_guide.pdf



Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

Northeasterly winds today and Friday at 10-15 knots (5-8 m/s) becoming southwesterly Friday evening and northwesterly on Saturday. Easterly winds Sunday becoming southeasterly Monday.



Satellite chlorophyll image and forecast winds for November 9, 2007 12Z with Cell concentration sampling data from October 29 to November 7 shown as red (high), orange (medium), yellow (low b), brown (low a), blue(very low b), purple (very low a), pink (present), and green (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the HABFS bulletin guide: http://www.csc.noaa.gov/crs/habfs/habfs_bulletin_guide.pdf

Verified and suspected HAB areas shown in red. Other areas of high chlorophyll concentration shown in yellow (see p. 1 analysis for interpretation).

Wind conditions from Dauphin Island, AL

